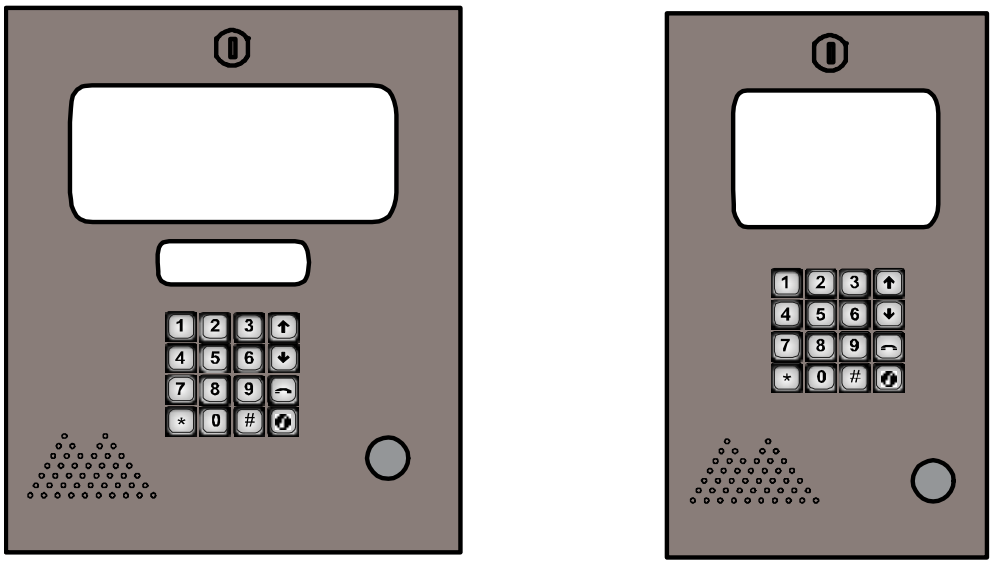
Mircom™

TX3 Series

TELEPHONE ACCESS SYSTEMS



Programming Manual

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Telephone Access System Programming Manual v. 2.2

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1 Introduction

This manual provides you with detailed instructions on how to configure the TX3 Telephone Access System from the main entry panel keypad.

This manual must be read in its entirety before beginning the configuration. Configuration must be performed by a qualified technician and must adhere to the standards and special notices set by the local regulatory bodies.

Note: **Mircom periodically updates panel firmware and Configurator Software to add features and correct any minor inconsistencies. For information about the latest firmware or software visit the Mircom website at www.mircom.com.**

For warranty and special notices information see the Warranty and Special Notices chapter on page 51.

This manual explains

- The TX3 Telephone Access System
- How to configure the TX3 Telephone Access System

1.1 TX3 Systems

The Mircom's TX3 series of telephone access systems provide high quality two-way communication between residents and their visitors in a multi-unit dwelling establishment.

The basic TX3 system consists of the TX3 Entry Panel and depending on the application, may be integrated with a combination of Mircom Elevator Restriction Units and Card Access Units. All access systems may be networked together using an RS-485 connection.

The TX3 system is capable of providing ADC or NSL telephone access from a single panel or from a networked system. The TX3 system also may consist of one or more access systems networked together using an RS-485 connection.

The access system can be configured as an autodialer controller (ADC) or as a no subscriber line (NSL) system. Both system setups can be configured for multiple entrances with independent doors and control devices such as electric door locks, cameras, and garage doors.

1.1.1 ADC and NSL Capability

A single TX3 Entry Panel supports full ADC and NSL telephone connectivity.

An ADC connection requires a dedicated subscriber telephone line service connected to an outside telephone line. This mode lets the visitor call the tenant and access their voice mail.

An NSL connection uses the existing building telephone lines for communication and does not require a separate telephone line. This system may consist of one or more entry panels connected to TX3-NSL-8M NSL Units, typically located in the electrical/telephone room of a building. The NSL units intercept all telephone lines into the building's suites if the lines are not in use. This mode lets the visitor call the tenant and access their voice mail and call waiting.

1.1.2 Elevator Restriction Units

The TX3-ER-8 Elevator Restriction Unit limits building accessibility by granting visitor access only to the destination floor.

1.2 Features

Features of the TX3 series include:

- Stainless steel front panel
- Universal Series enclosure with a built-in rain hood
- Large scrolling 8 x 20 LCD display that eliminates the need for an external directory

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- Back-lit 16 digit keypad with dedicated operational buttons for Page Up, Page Down, Call and Info
- Provisions for postal lock and camera
- Multilingual Display and Voice Greeting (English, French-Canadian and Spanish) that provides instructions on how to use the entry panel
- Concierge/Security Desk/Guard Phone capability
- Card Access Interface
- Supports both Auto Dialer (ADC) and NSL (no phone bill)
- Ability to network panels together (peer-to-peer)
- Hands free, full duplex communication
- Flexible one to four digit resident dial codes
- Dials up to 18 digit telephone numbers
- System can be configured locally using the keypad or a computer with the TX3 configuration software
- Upload/download configuration files without taking the whole system off-line
- Programming from one location
- Records a maximum of 5000 event logs
- Elevator restriction capability
- Schedule based call restrictions provide more security and flexibility
- Capability of one person testing of the NSL controller without using the lobby panel
- Industry Canada and F.C.C. approved

1.3 Warranty and Special Notices

Mircom values your business and always attempts to provide you with the very best service.

Please see the Warranty and Special Notices chapter on page 51 for information about the warranty and special notices about equipment use.

1.4 About This Manual

This manual provides comprehensive information on the configuration of the TX3 Series Telephone Access System. Tasks are described in the order that they are likely to be performed.

This manual applies to the following models:

- TX3-120/200-4 and TX3-120/200-4-A (4x20 LCD)
- TX3-200-8 and TX3-200-8-A (8x20 LCD)

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- TX3-1000-4 and TX3-1000-4-A (4x20 LCD)
- TX3-1000-8 and TX3-1000-8-A (8x20 LCD)
- TX3-2000-4 and TX3-2000-4-A (4x20 LCD)
- TX3-2000-8 TX3-2000-8-A (8x20 LCD)

1.4.1 Version Control

The version number appears on the front cover and changes whenever there is a major or minor update to any part of the system regarding operation or configuration.

The following convention indicates major or minor changes:

Initial release. Version 1.00.0

Major change. Version 1.01.0

Minor change. Version 1.01.1

1.4.2 Additional Documentation

For additional documentation, see the following Mircom literature:

- TX3-CX Touch Screen Administrators Guide LT-995
- TX3-CX Card Access System Installation and Operation Manual LT-980
- TX3 Telephone Access System User's Guide LT-968
- TX3 Two Door Card Access System Kit Catalogue Number 6531
- TX3 Series Elevator Restriction Accessories Catalogue Number 6532

1.5 Contact Us

You can contact us from Monday to Friday 8:00 A.M. to 5:00 P.M. E.S.T.

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1.5.1 General Inquiries

Toll Free: 1-888-660-4655

Local: 905-660-4655

1.5.2 Customer Service

Toll Free: 1-888-MIRCOM5

Local: 905-695-3535

Local Fax: 905-660-4113

Toll-Free Fax: 1-888-660-4113

1.5.3 Technical Support

For technical support contact Mircom's Technical Support Department between 8 A.M. and 5 P.M. (EST) Monday through Friday, excluding holidays.

Toll Free: 1-888-MIRCOM5

Local: 905-695-3535

Local Phone: 905-660-4655

Toll Free Phone: 1-888-660-4655

Email: techsupport@mircom.com

1.5.4 Website

www.mircom.com

1.5.5 Email

mail@mircom.com

1.6 Viewing Resident List

The TX3 Entry Panel LCD shows a scrollable view of the resident names and dial codes. The LCD comes in a four or eight line LCD handset version. A paper version of the resident list is also available.

To view the resident list

1. Press the up or down arrow keys on the Entry Panel keypad to scroll through the list line by line.

   or

   To view the resident list page by page use the star key to scroll page up and number key to scroll page down.

2. Key in the dial code associated with the resident you wish to speak to or press the Telephone Key when the cursor is on the resident's name. For the handset version, first pick up the phone and then key in the dial code or press the Telephone Key.

3. Once the resident grants entry permission, the door unlocks. For the handset version, hang up the phone and proceed through the door.

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2 Configuration

This chapter provides detailed information about the TX3 Telephone Access System configurable functions.

This chapter explains

- How to Use the TX3 Telephone Access System
- Access Levels
- Viewing Configuration Information
- Entering Configuration Mode
- Keypad Navigation
- Exiting Configuration Mode
- Configuration Menu
- Operation Menu
- Database Menu
- Adding a New Record
- System Option
- Schedule Menu
- Factory Default
- Input/Output
- Correlations

2.1 Keypad Navigation

Figure 1 shows how to use the keypad when in CONFIGURATION MODE. Note that the keypad buttons can have different functions when creating resident entries. Refer to 2.7.1 Adding a New Record and Table 1: List of Screens for more information.

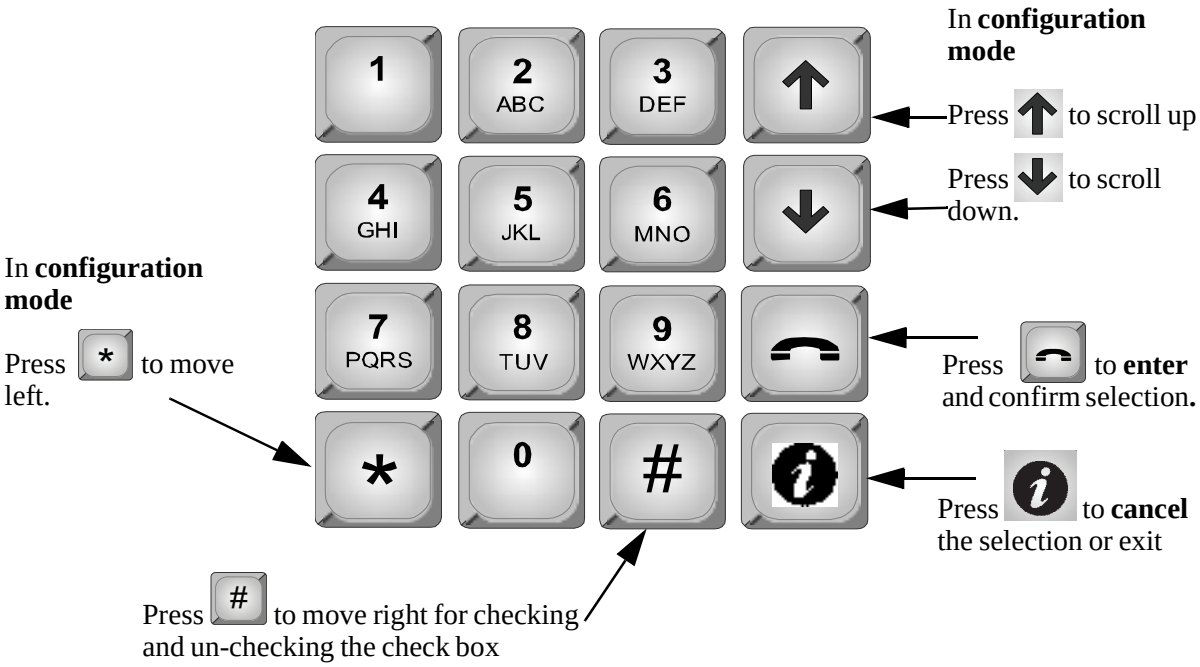


Figure 1. Keypad Navigation

2.1.1 Exiting Configuration Mode

You can exit the configuration mode at any time.

To exit configuration mode

1. To exit the configuration mode, press the info key to return to the previous menu.

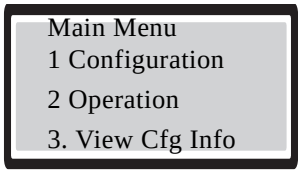
2.2 Beginning Configuration

To configure the Telephone Access panel, you must first enter the configuration mode.

To enter configuration mode

1. Press

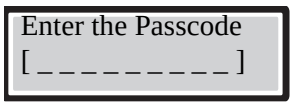
. The main menu appears with three choices; the Configuration Menu, Operation Menu and the View Configuration Information.



To access the Operation menu see paragraph 2.4.

To access the View Configuration Information menu see paragraph 2.3.

2. Select Configuration and press the telephone key . The passcode message appears.



3. Enter your passcode.

or

If you *have not* set a personal passcode, press `3 3 3 3`. This number is the four-digit factory default. You are now in configuration mode.

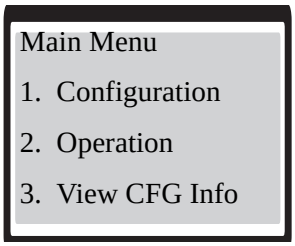
To continue with configuration see paragraph 2.5.

2.3 Viewing Configuration Information

To view configuration information, you must first enter the configuration mode.

To select viewing mode

1. Press `9 9 9 9`. The Main Menu appears. You may need to scroll up or down to view the entire selection.



2. Press the (scroll down) to “View Cfg Info”.

3. Press the telephone key to view the configuration information. The system configuration information appears.

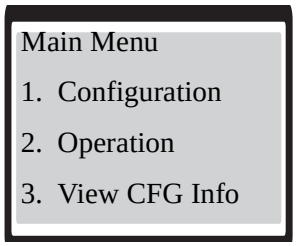
4. Press the info key to return to the previous menu.

2.4 Accessing the Operation Menu

The Operation Menu lets you view logs, delete logs and set the time & date.

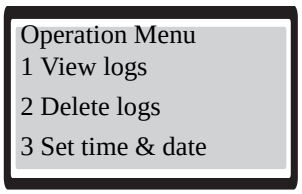
To access the operation menu

1. Press `9 9 9 9`. The configuration information appears.



2. Press the (scroll down) to “Operation”.

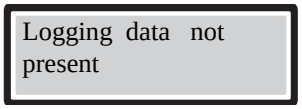
3. Press the telephone key. The “Operation” menu appears.



To view logs

1. Press the arrow key to scroll to “View Logs” and press the enter (telephone) key. The system information appears.

   If you have just installed the system, following message appears.



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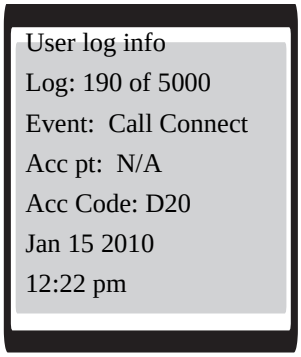
2. If recent events have occurred, such as, entering of dial codes and the opening of the main door, this information appears along with the date and time as follows.



The first four digits represent the index of logged events in sequence from 1 (0001) up to 5000.

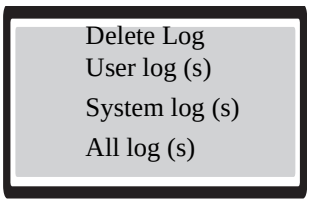
The following letter “D” indicates that the preceding number was a dial code (D = dial code, K = keyless code).

The term “Acc:” represents the word “access”. The term “Yes” indicates that access was granted.

3. Press info key to return to previous menu.

To delete logs

1. Press the arrow key to scroll to “Delete Logs” and press the telephone key. The “Delete Logs” selection appears.

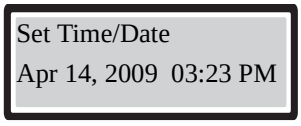


2. Use the up and down arrow keys to select the log and press the telephone (enter) key to delete.

3. Press info key to return to previous menu.

To set time & date

1. Press the arrow key to scroll to “Set Time & Day” and press the telephone key. The time and day information appears.



2. Use the up and down arrow keys to set the time and day.

3. Press info key to return to previous menu.

2.5 Configuration Menu

The Configuration Menu consists of the following configurable items.

- System Option
- Database
- Schedules
- Holidays
- Factory Default
- Input/Output
- Correlation
- Change Passcode
- Test LCD

For a description on how to configure these items see paragraphs 2.6 to 2.14.

2.6 System Option

Selecting “System Option” from the Configuration Menu gives you the following configuration options:

- Tone/Pulse mode
- Line Type
- Main Door DTMF
- Aux Door DTMF
- Main door timer
- Aux door timer
- Talk timer
- Language
- Welcome Message
- Guard Phone
- Calling Sch
- Unlock Schedule
- Keycode Sch
- Call Wait Key
- Keypad Active
- No of rings

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- Postal usage
- Scroll speed
- Day light saving
- Clock adjustment
- Elevator Rest Timer
- Speaker volume
- MIC volume
- Select Font (only available on 8-line display)
- Voice Help Option
- Auto Unlock Schedule
- DTMF Sensitivity
- Handset

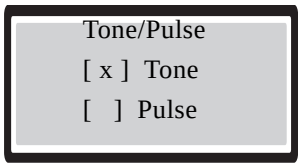
For a description on how to configure these items see paragraphs 2.6.1 to 2.6.28

2.6.1 Tone/Pulse mode

Although this option appears on the front panel, it is not configurable. The telephone always operates in tone mode.

To access the Tone/Pulse option screen

1. Press the arrow key to scroll to “Tone/Pulse mode” and press the telephone key. The tone/pulse selection appears.



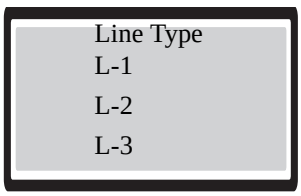
2. Press the info key to return to the previous menu.

2.6.2 Line Type

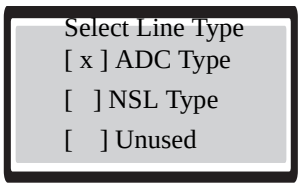
The Line Type function defines each of the 5 telephone lines as ADC, NSL or not used. By default is line 1 is ADC and lines 2 to 5 as unused.

To define the line type operation

1. Press the arrow key to scroll to “Line Type” and press the telephone key. The line selection appears.



2. Using the down arrow key to select L-1, and press the telephone (enter) key. The line type selection appears.



3. Use the '*" and or "#" key to make a selection.

4. Press the telephone key to enter the selection.

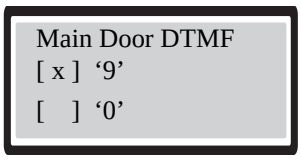
5. Press the info key to return to the previous menu.

2.6.3 Main Door DTMF

The Main Door DTMF function defines the key the resident presses to open the main door. The default key is 9.

To define the Main Door DTMF key

1. Press the arrow key to scroll to "Main Door DTMF" and press the telephone key. The Main Door DTMF selection appears.



2. Use the up or down key to move to the key number.

3. Use the * key to select the number and the telephone (enter) key to confirm the DTMF code. Valid numbers are 1 to 9, * or #.

Note: Do not select 4 (this is used to refuse entry or disconnect) and do not select the number that you are using for **Call Wait Key** (see 2.6.14 Call Wait Key on page 24).

4. Press the info key to return to the configuration menu.

5. Press the info key to return to the previous menu.

2.6.4 Aux Door DTMF

The Aux Door DTMF function defines the key the resident presses to open the auxiliary door. The default key is 6.

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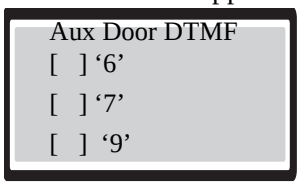
To define the Aux Door DTMF key

1. Press the arrow key to scroll to “Aux Door DTMF” and press the telephone key. The Aux Door DTMF selection appears.



2. Use the up or down key to move to the key number.

3. Use the * key to select the number and the telephone (enter) key to confirm the DTMF code. Valid numbers are 1 to 9, * or #.

Note: Do not select 4 (this is used to refuse entry or disconnect) and do not select the number that you are using for **Call Wait Key** (see 2.6.14 Call Wait Key on page 24).

4. Press the info key to return to the previous menu.

2.6.5 Main Door Timer

The Main Door Timer function defines the length of time that the main door stays unlocked after the resident opens the main door using the telephone keypad. The default is 10 seconds.

To set the Main Door Timer

1. Press the arrow key to scroll to “Main Door Timer” and press the telephone key. The Main Door Timer selection entry appears.

2. Use the up or down keys to select the number of seconds. Valid programmable time is 1 to 60 seconds.

3. Press the info key to return to the previous menu.

2.6.6 Aux Door Timer

The Auxiliary Door Timer function defines the length of time that the auxiliary door stays unlocked after the resident opens the auxiliary door using the telephone keypad. The default is 10 seconds.

To set the Auxiliary Door Timer

1. Press the arrow key to scroll to auxiliary “Door Timer” and press the telephone key. The Auxiliary Door Timer selection entry appears.

2. Use the up or down keys to select the number of seconds. Valid programmable time is 1 to 60 seconds.

3. Press the info key to return to the previous menu.

2.6.7 Talk Timer

The Talk Timer function defines the length of time that a visitor may be on the telephone with a resident. The default is 60 seconds.

To set the Talk Timer

1. Press the arrow key to scroll to “Talk Timer” and press the telephone key. The Talk Timer selection entry appears.

2. Use the up or down keys to select the number of seconds. Valid time is from 10 to 300 seconds.

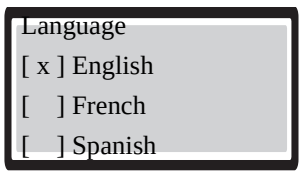
3. Press the info key to return to the previous menu.

2.6.8 Language

The default language is English. Selecting Multi Language makes the opening screen flip through messages in English, French, and Spanish. Once a key is pressed, the language that is displayed on the screen at that moment will be used for the rest of the messages.

To select a language

1. Press the arrow key to scroll to “Language” and press the telephone (enter) key. The language selection appears.



2. Press the info key to return to the previous menu.

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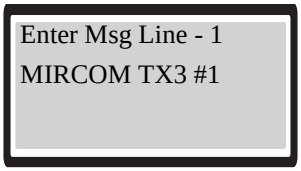
2.6.9 Welcome Message

The Welcome Message function lets you change the welcome message on the front of the TX3 Entry Control Panel.

To change the welcome message

1. Press the arrow key to scroll to “Welcome Message” and press the telephone (enter) key. The welcome message appears.



2. Press the up arrow key to scroll to the next message line (Line-2) and scroll up again for next message (Line-3).
3. Edit each message.

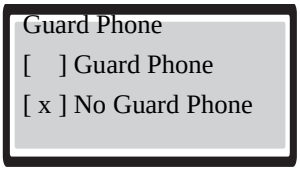
   Press the 1 key 9 times to get an asterisk (*).
4. Press the telephone (enter) key to accept.
5. Press info key to return to previous menu.

2.6.10 Guard Phone

The Guard phone is an optional auxiliary phone on the lobby control unit that lets you place calls to residents using their dial code.

To enable the guard phone

1. Press the arrow key to scroll to “Guard Phone” and press the telephone (enter) key. The Guard Phone selection appears.



2. Press the up arrow key to see all 3 lines as shown above.
3. The default is no guard phone. Use the * key to select the Guard Phone if required and press the telephone (enter) key to accept.
4. Press info key to return to previous menu.

2.6.11 Calling Schedule

The Calling Schedule function lets you define when calls to residents are allowed. For a description on how to define schedules see paragraph 2.8.

To set the calling schedule

1. Press the arrow key to scroll to “Calling Sch” and press the telephone (enter) key. The Calling Schedule selection appears.

2. Press the up and down arrow keys to scroll to one of the schedules shown above. There are two default schedules to choose; ALWAYS and NEVER. The other calling schedules are defined by the administrator. The default is “Always”. See more information about schedules see paragraph 2.8.

3. Use the up and down arrow keys to select the schedule and press the telephone (enter) key to accept.

Note: The configurator software program defines up to 64 schedules.

4. Press info key to return to previous menu.

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2.6.12 Unlock Schedule

The Unlock Schedule function lets you define when residents can grant access to a visitor according to the day and/or time.

To set the Unlock Schedule

1. Press the arrow key to scroll to “Unlock Sch” and press the telephone (enter) key. The Unlock Schedule selection appears.

2. Press the up and down arrow keys to scroll through all of the available schedules as shown above. The default is “Always”.

3. Use the up and down arrow keys to select the schedule and press the telephone (enter) key to accept.

4. Press info key to return to previous menu.

2.6.13 Keycode Schedule

The Keycode Schedule functions lets you define different schedules for keyless entry.

To set the Keycode Schedule

1. Press the arrow key to scroll to “Keycode Sch” and press the telephone (enter) key. The Keycode Schedule selection appears.

2. Press the up and down arrow keys to scroll through the schedules as shown above. The default is “Always”.

3. Use the up and down arrow keys to select the schedule and press the telephone (enter) key to accept.

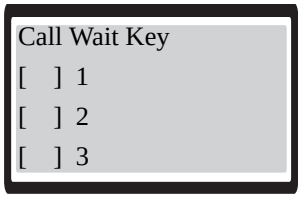
4. Press info key to return to previous menu.

2.6.14 Call Wait Key

The Call Wait Key function defines the key the resident presses to place an outside call on hold. The default key is 2. This feature applies to NSL lines only.

To set the Call Wait key

1. Press the arrow key to select the “Call Wait Key” and press the telephone (enter) key. The Call Wait Key selection appears.



2. Press the up and down arrow keys to scroll through the available keys. Valid keys are 1 to 9, * or #.

3. The default call wait key is 2 and the available range is 1 to 9. Once selection is made using the up/down selection keys, press the (enter) key to accept.

Note: Do not select 4. This is used to refuse entry or disconnect.

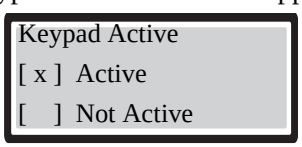
4. Press info key to return to previous menu.

2.6.15 Keypad Active

The Keypad Active function activates the Telephone Access System panel keypad for the visitor to use during a call. For example, when an answering machine picks up the call, the visitor is able to use the keypad to leave a message.

To set the Keypad Active function

1. Press the arrow key to select “Keypad Active” and press the telephone (enter) key. The “Keypad Active” selection appears.



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2. Press the * key to change the selection and then press the telephone (enter) key to accept. The default is “Active”.

3. Press info key to return to the previous menu.

2.6.16 Number of Rings

The number of rings function lets you set the maximum number of rings the resident receives with a call originates from the entry panel. This feature applies to NSL lines only.

To set the Number of Rings function

1. Press the arrow key to select “No of rings” and press the telephone (enter) key. The “No of rings” entry appears.

2. Use the up and down arrow keys to scroll to the number of rings. The number of rings ranges from 1 to 15. The default number of rings is 7.

3. Press the telephone (enter) key to accept.

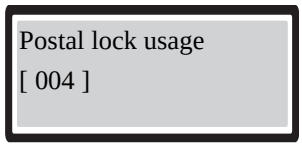
4. Press info key to return to the previous menu.

2.6.17 Postal Usage

The “Postal Usage” function lets you define the maximum daily usage for the postal lock. The range is 1 to 254 and the default is 4. For unlimited usage set the value to 255.

To set the maximum daily postal usage

1. Press the arrow key to “Postal usage” and press the telephone (enter) key. The “Postal usage” entry appears.



2. Press the up and down arrow keys to select the number. Press the telephone (enter) key to accept.

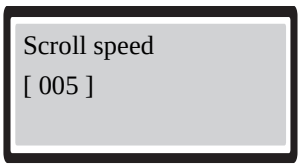
3. Press the info key to return to previous menu.

2.6.18 Scroll Speed

The “Scroll Speed” function lets you set the resident directory scrolling speed for the Entry Panel display.

To set the Scroll Speed function

1. Press the arrow to scroll to “Scroll speed” and press the telephone (enter) key. The “Scroll Speed” entry appears.



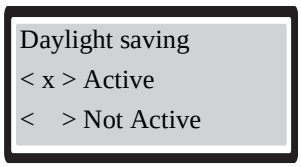
2. Press the up and down arrow keys to scroll through the numbers. The default is 5, the range is 1-10.
3. Press the telephone (enter) key to accept.
4. Press info key to return to previous menu.

2.6.19 Daylight Saving

The “Daylight Saving” function lets you set the daylight savings time for the Entry Panel LCU. When active this feature automatically adjusts the time by one hour in the spring and the fall each year.

To set the Daylight Saving function

1. Scroll the arrow to “Daylight Saving” and press the telephone (enter) key. The “Day light Saving” selection appears.



2. Press the up and down arrow keys to scroll to the ‘active’ or ‘not active’ selection. The default is ‘active’.
3. Use the “#” key to make a selection.
4. Press the telephone (enter) key to accept.
5. Press info key to return to previous menu.

2.6.20 Clock Adjustment

The “Clock Adjustment” function lets you set the number of seconds to automatically adjust the clock daily drift. If you find that the clock on your panel is running slow, use this option to set a daily correction for your panel’s clock.

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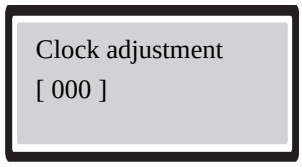
To set the Clock Adjustment function

1. Press the arrow to scroll to “Clock Adjustment” and press the telephone (enter) key. The “Clock Adjustment” entry appears.



2. Press the up and down arrow keys to increase the adjustment or the down arrow key to decrease the adjustment. The range is -15 to 15 seconds and the default is 0.
3. Press the telephone (enter) key to accept.
4. Press info key to return to previous menu.

2.6.21 Elevator Rest Timer

The “Elevator Restriction Timer” function lets you define the elevator access time.

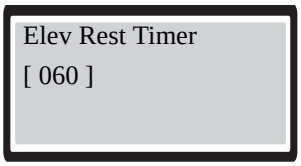
The elevator restriction cabinet houses up to 96 Form C type relay contacts. These relay contacts are normally connected to the input circuits of the elevator manufacturer’s button controller. When a resident releases the door, a designated relay is energized to signal the elevator button controller to enable a particular floor select button on the elevator and disable all others.

The elevator is restricted to stop only on the selected floor. The time period for these relays to remain in an energized state depends on the assigned timer period.

Note: Each elevator restriction cabinet can have only one common timer. The timer range is 5 to 600 seconds, with 60 seconds as the default.

To set the Elevator Restriction Timer function

1. Press the arrow key to select the “Elevr Rest Tmr” and press the telephone (enter) key. The “Elevr Rest Tmr” entry appears.



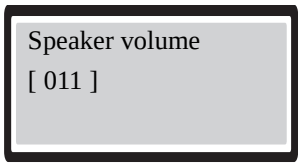
2. Press the up and down arrow keys to scroll through the numbers. The range is 5 to 600 seconds and the default is 60 seconds.
3. Press the telephone (enter) key to accept the number in view.
4. Press info key to return to previous menu.

2.6.22 Speaker Volume

The “Speaker Volume” function lets you adjust the Entry Panel speaker volume.

To set the “Speaker Volume” function

1. Press the arrow key to scroll to “Speaker volume” and press the telephone (enter) key. The “Speaker volume” entry appears.



2. Press the up and down arrow keys to scroll through the numbers. The range is 1-15 and the default is 11.
3. Press the telephone (enter) key to accept.
4. Press info key to return to previous menu.

2.6.23 MIC Volume

The “Microphone Volume” function lets you adjust the sensitivity of the Entry Panel microphone volume.

To set the “Microphone Volume” function

1. Press the arrow key to scroll to “MIC volume” and press the telephone (enter) key. The “MIC volume” entry appears.

2. Press the up and down arrow keys to scroll through the numbers. The range is 1-15 and the default is 5.
3. Press the telephone (enter) key to accept.
4. Press info key to return to previous menu.

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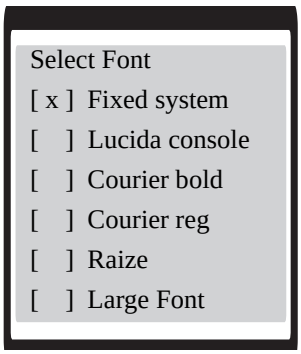
2.6.24 Select Font Option

The Select Font Option function lets you select the system font and is only available on the 8-line display.

Note: The Select Font Option is only available for 8 line display Entry Panels.

To set the "Select Font Option" function

1. Press the arrow key to scroll to "Select Font Option" and press the telephone (enter) key. The "Select Font Option" selection appears.



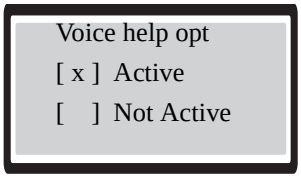
2. Press the up and down arrow keys to scroll to a selection. The default is 'Fixed system'.
3. Use the "#" key to make a selection.
4. Press the telephone (enter) key to accept.
5. Press info key to return to previous menu.

2.6.25 Voice Help Option

The "Voice Help Option" function lets you turn on or off Voice Help.

To set the "Voice Help Option" function

1. Press the arrow key to scroll to "Voice Help Option" and press the telephone (enter) key. The "Voice Help Option" selection appears.



2. Press the up and down arrow keys to scroll to the 'Active' or 'Not Active' selection. The default is 'Active'.
3. Use the "#" key to make a selection.
4. Press the telephone (enter) key to accept.

5. Press info key to return to previous menu.

2.6.26 Auto Unlock Schedule

The Auto Unlock Schedule function lets you keep the door unlocked for the duration of the selected schedule. The door locks when the schedule ends.

To set the Auto Unlock Schedule

1. Press the arrow key to scroll to “Auto Unlock Sch” and press the telephone (enter) key. The Auto Unlock Schedule selection appears.

2. Press the up and down arrow keys to scroll through all of the available schedules as shown above. The factory default is “Never”.

3. Use the up and down arrow keys to select the schedule and press the telephone (enter) key to accept.

4. Press info key to return to previous menu.

2.6.27 DTMF Sensitivity

The DTMF sensitivity feature allows the resident to change how sensitive the TX3 unit is to receiving DTMF signals. DTMF sensitivity can be set from 1 to 8. A sensitivity of 1 indicates the lowest sensitivity while 8 is the highest sensitivity. The default sensitivity is 5.

To define the DTMF sensitivity

1. Press the arrow key to scroll to “DTMF Sensitivity” and press the telephone key. The DTMF Sensitivity selection appears.

2. Use the up or down key to move to select the sensitivity level.

3. Press the telephone (enter) key to accept.

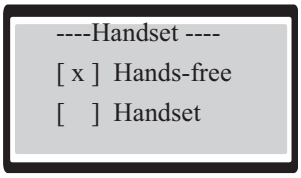
4. Press the info key to return to the previous menu.

2.6.28 Handset

The handset option lets you specify if there is a handset connected to your panel. The default setting is “Hands-free” (that is, no handset).

To set the Handset option

1. Press the arrow key to scroll to “Handset” and press the telephone key. The Handset selection appears.



2. Use the up or down key to scroll to the “Hands-free” or “Handset” selection.
3. Use the “#” key to make a selection.
4. Press the telephone (enter) key to accept.
5. Press the info key to return to the previous menu.

2.7 Database Menu

The Database Menu consists of the following options.

- Add Record
- Edit Record
- Delete Record
- Sort by name
- Sort by d-code (sort by dial code)
- Auto Program
- Delete all Records

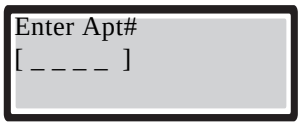
2.7.1 Adding a New Record

Table 3 describes the information for adding new resident information. Use the information in Table 3 to help you add new records.

To enter a resident

1. From the configuration menu, select the database menu. The database selection appears.

2. Press the telephone key to enter the Add Record selection. The Enter Apt# box appears.



3. To enter an apartment number, use the number keys to select the appropriate characters. Maximum number of characters is 8. See Figure 2 for information about the characters that correspond to each number.

   Press any number key once, twice, three or more times to cycle through the characters associated with that key. Capital letters appear after you cycle through all of the lower case letters. When you reach the character you want, stop pressing the key and the character will remain in the display. Note that arrow keys are not used.

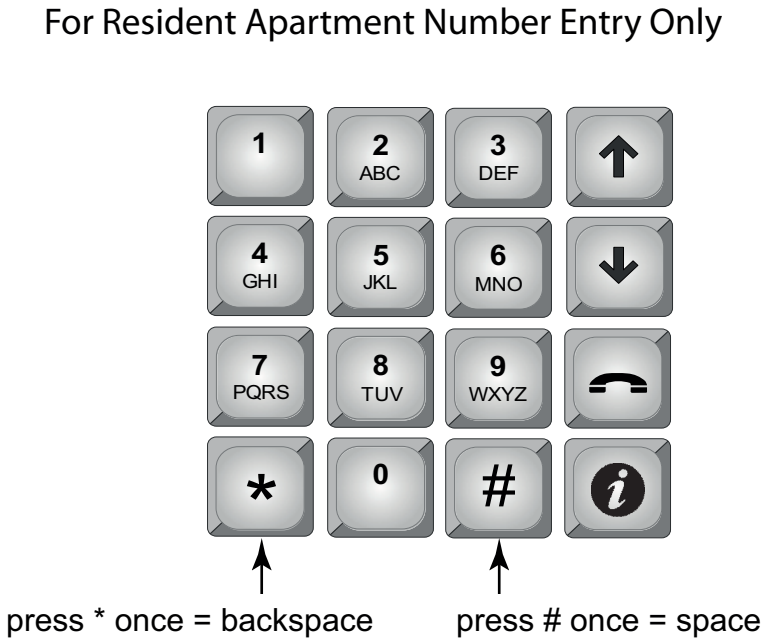


Figure 2. Keypad commands for entering an apartment number.

Note: If you accidentally enter the wrong character while configuring an apartment number, press * once to backspace.

For example, to enter the apartment number “23B”,

a. Press “2” once for the “2”, and then wait for the cursor to advance.

b. Press “3” once for the “3”, and then wait for the cursor to advance.

c. Press “2” six times for the letter “B”.

d. Press the telephone key to save and continue.

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4. Once you have entered the apartment number and pressed the telephone key to accept, the Enter Dial Code screen appears. The list of all screens that you need to configure to add a resident is given in Table 1. Press the telephone key to save the information for a screen and then advance to the next screen.

Note: The keypad functions differently for entering a resident's name (see Figure 3) and for entering a resident's phone number (see Figure 4). Refer to these figures when entering information for those screens.

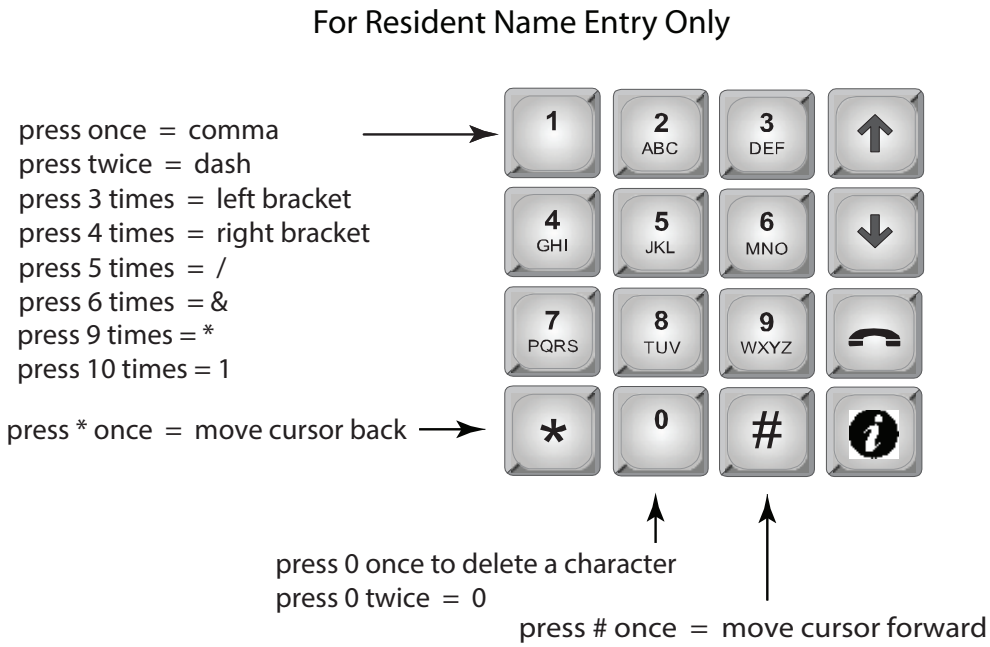

Figure 3. Keypad commands for entering a resident name.

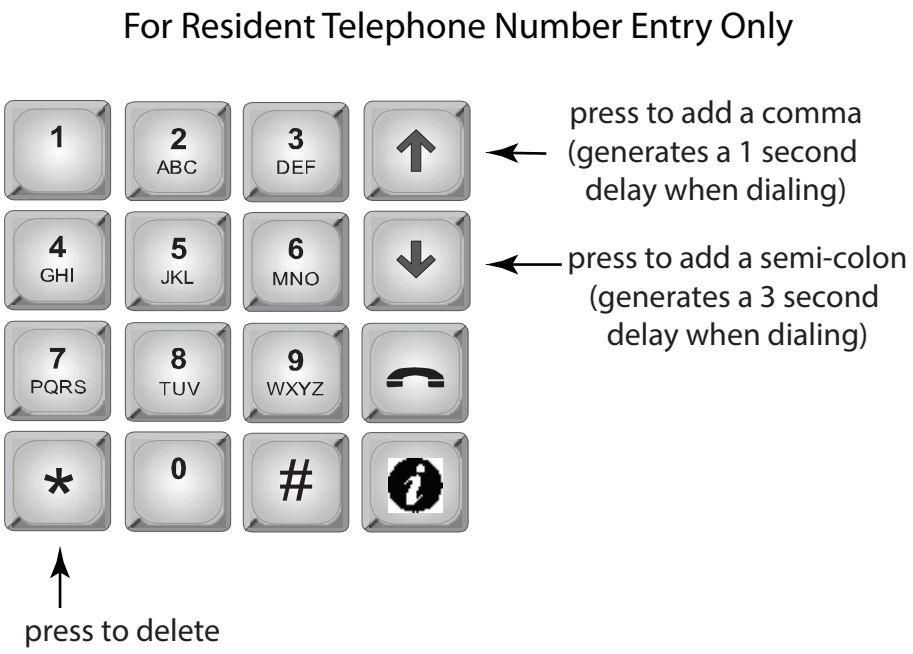

Figure 4. Keypad commands for entering a resident's telephone number.

5. When all the information for the new resident has been added, the display shows "New Record Added" and then returns you to the configuration menu.

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Table 1: List of Screens

Database Menu	NSL System	ADC System	Explanation/Description
Enter Apt# [_ _ _ _]	YES	YES	Enter the resident's apartment number (up to 8 digits).
Enter Dial Code _ _ _ _	YES	YES	Enter the resident's dial code (up to 4 digits).
Main Door sec. code [_ _ _ _]	YES	YES	Enter a series of up to 4 digits from 0 to 9 to replace the main door DTMF key (see section 2.6.3) for the specific resident. To open the Main Door, the resident enters the Main Door Security code followed by the # key. **DO NOT select "4". This is used to refuse entry or disconnect. Do not select the number that you are using for Call Wait Key (**2.6.14 Call Wait Key on page 24**).**
Aux Door sec. code [_ _ _ _]	YES	YES	Enter a series of up to 4 digits from 0 to 9 to replace the auxiliary door DTMF key (see section 2.6.4) for the specific resident. To open the Auxiliary Door, the resident enters the Auxiliary Door Security code followed by the # key. **DO NOT select "4". This is used to refuse entry or disconnect. Do not select the number that you are using for Call Wait Key (**2.6.14 Call Wait Key on page 24**).**
Enter Resident Name	YES	YES	Enter the resident's name. The name must be unique and a maximum of 15 characters.
Line In Use [x] Line 1 - 5	YES	YES	Enter the speech path for resident to communicate to the ADC line or to a relay control unit. Line 1 is default. Use arrow keys to scroll and press # or * to make a selection.
Enter Phone number [_____]	N/A	YES	Enter the resident's telephone number (up to 18 digits including a comma that is used as 1 second delay). Use the up arrow key for a comma (1 second pause) and the down arrow key for a semi-color (3 second pause). Press Enter (telephone key) to accept the telephone number.
Enter Relay Code [_ _ _ _]	YES	N/A	Enter the resident's assigned relay code (NSL only). Note: Relay codes start at 1 for the first relay, up to 1535.
Enter Keyless Code [_ _ _ _]	YES	YES	Enter the assigned keyless code, up to 6 digits (if used). *See below for using keyless entry codes.*
Keyless Code Corr [x] Main door relay [ ] Aux door relay	YES	YES	Select which door (main, auxiliary or both) can be opened by the resident using a keyless code. Use arrow keys to scroll and press # or * to make a selection.
Enter Elev Rest Addr [_ _]	YES	YES	Enter the ID (or address) of the Elevator Restriction controller for the resident.
Enter Elev Rest Code [_ _]	YES	YES	Enter the elevator restriction relay number for the resident.
Hide Display [x] Display	YES	YES	This feature turns the resident information display ON or OFF. When OFF the resident's information is only displayed in configuration mode. Use arrow keys to scroll and press # or * to make a selection.

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Table 1: List of Screens

Ring Pattern [x] Ring Pattern 1-5	YES	N/A	Enter the ring pattern for the resident. See Table 2 for available ring patterns. The default is 1. Use arrow keys to scroll and press # or * to make a selection.

2.7.2 Using keyless entry codes

To enter the premises with a keyless entry code, you must first be in normal mode. While in normal mode, press 0, after which point you are prompted with "Enter keyless code". The keyless code is a numeric value from 1 to 999999.

To enter your keyless code

1. Press 0. The keyless enter code appears.
2. Enter your keyless code.

2.7.3 Selecting a ring pattern (NSL System only)

The ring pattern selection is part of the Database Menu.

Table 2: Available Ring Pattern

Ring Pattern	Available Ring Pattern						
1	2s ON	4s OFF					standard ring A
2	800ms ON	400ms OFF	800ms ON	4s OFF			distinct ring B
3	200ms ON	400ms OFF	200ms ON	400ms OFF	800ms ON	4s OFF	distinct ring C
4	200ms ON	400ms OFF	800ms ON	400ms OFF	200ms ON	4s OFF	distinct ring D
5	One single ringing burst						

2.7.4 Editing Records

To edit a record

1. Select "Edit Record" and use the up/down key to scroll through the residents.

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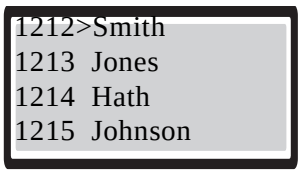
2. Press the telephone button to select the resident's name for editing.



3. Use the down arrow key to scroll down the list of fields, such as Apartment number, Resident name, Dial code Keyless code, relay code, telephone number, etc.

4. Once the arrow is pointing to the field that requires a change, press the telephone key to edit.

5. Re-enter the correct information.

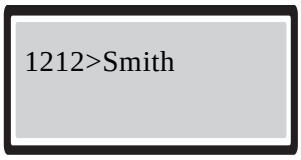
When you are finished editing the record, the display returns to the record list. At this point you may edit another record or press information key to return to the configuration menu.

2.7.5 Deleting Records

Select this feature if you want to delete a resident's name. This function deletes one record at a time.

To delete a record

1. Scroll the arrow to "Delete Record" and press the telephone button. The dial code and resident name appear:



2. Scroll the resident names with the up/down arrow keys to the record you wish to delete.

3. Press the telephone (enter) key to delete the entire record for the particular resident. A warning message appears.

4. When the warning appears "Delete Record? Y. Press the telephone key to accept or the info key to cancel.

5. Once the record has been deleted, the screen will return to the Delete Record function. At this point you may delete other records or press the info key to return to the configuration menu.

2.7.6 Sorting by Name

Select this feature if you want the list of residents to be sorted alphabetically by name.

To sort by name

1. Scroll the arrow to “Sort by Name” and press the enter (telephone) key. Selecting this feature during database downloaded displays the following message:

The display now returns to the configuration menu.

2.7.7 Sorting by dial code

To sort by d-code

Select this feature if you want the list of residents to be sorted numerically by dial code. Scroll the arrow to “Sort by d-code” and press enter (telephone) key. If you have just downloaded the database, the following message appears:

The display now returns to the configuration menu.

2.7.8 Auto Programming

Auto programming allows you to add a group of residents from a minimum of 10 to a maximum of 200 names. This function allows you to auto program the number of residents, resident name, start dial code, start keyless code and line number to use.

This feature is particularly useful when adding a large number of residents into the system.

Table 3 describes the information you will need to auto program the panel.

Table 3: Auto Programming Information

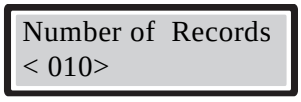
Programming Menu	NSL System	ADC System	Explanation/Description
Number of Records [____]	YES	YES	Enter the total number of residents to auto program (4 digits). Scroll up or down to the desired number, then press enter (telephone key). Must be 10 or more.
Enter Resident Name [_____]	YES	YES	Enter the resident’s name (maximum 10 characters).

Table 3: Auto Programming Information

Start Dialcode [____]	YES	YES	Enter the start number of Dial Codes to auto program. The starting code will be entered in increments of 1, up to the number of residents entered.
Start Keyless Code [____]	YES	YES	Enter the start number of the keyless codes, if used. The starting code will be entered in increments of 1, up to the number of residents entered. These codes are used by the visitors to enter without calling the resident.
Line Number to use [__]	YES	YES	Enter the Line number you wish for this lobby unit to connect to. This Line numbers will be used by the number of residents entered. Lines 1 to 5 are available.
Start Relay Number [____]	YES	N/A	Enter the start relay number to auto program. The starting relay number will be entered in increments of 1, up to the number of residents entered. Please note that the relay number starts at 1 for the first relay.

To use the auto program

1. Scroll the arrow to “Auto Program” database menu and press the enter (telephone) key. The display will now show the following message:

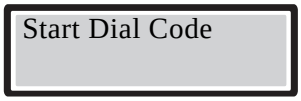


2. Use the up arrow to move from number of residents in increments of 5 to the desired number. The maximum depends on the TX3 Model (it can be 200, 1000 or 2000).

Note: Only 200 names can be added at a time.

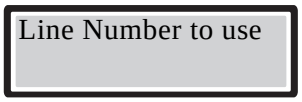
3. Press the telephone (enter) key to accept. The next screen will ask for resident name. Enter one of the resident names using the alphanumeric keypad.

4. Press the telephone (enter) key to accept. The next screen will ask for the resident’s dial code. All the rest of the dial codes increase by one.



5. Use the number keypad to enter the start dial code. The next screen asks for the resident's keyless code. All the rest of the keyless code increase by one.

6. Use the number keypad to enter the start keyless code. The next screen asks which audio line to use.



7. Use the up arrow to enter the line number. Press the enter (telephone) key to accept.

8. Press info key to return to previous menu. View the residents entered by scrolling page up and down using the * and # keys. To enter the proper resident names, use the edit feature.

2.7.9 Deleting All Records

Select this feature if you want to delete all the resident data (all names, dial codes, everything).

To delete all the resident data

1. Scroll the arrow to "Delete all Records" and press the enter (telephone) key. The following message appears:

2. Press the enter (telephone) key to accept or the info key to cancel. The display now returns to the configuration menu.

2.8 Schedule Menu

The schedule menu lets you set up a timetable to establish when certain panel functions are permitted to occur, such as when calls to residents are allowed, when residents can grant access to a visitor or when the postal lock can be used.

These schedules are designated and listed by name, and are available for selection wherever it is necessary to invoke access permission.

Each schedule consists of eight periods.

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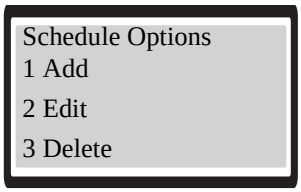
To configure a schedule

1. Press the arrow to scroll to “Schedules” in the main configuration menu and press the enter (telephone) key. The “Schedules” selection appears.



2. You are able to add, edit or delete any schedule except “Always” and “Never”.

To add a schedule

3. Select Add. The “Enter Label” selection appears.

4. Create a label, then add a start, end time and the days of the week the schedule will be active.

5. Define each of the eight periods for the schedule. At the end of the schedule configuration the “Schedule Added” message appears.

6. Press the telephone (enter) key to accept.

7. Press info key to return to previous menu.

To edit or delete a schedule

1. Select Edit or Delete. A list of all the schedules appears.

2. Press the arrow keys to scroll to the schedule you would like to edit or delete.

3. Press the telephone (enter) key to accept.

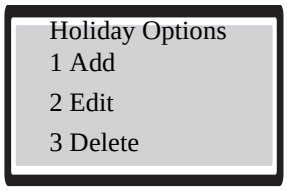
4. Press info key to return to previous menu.

2.9 Holidays Menu

The Holidays menu lets you define the holidays for your schedules. When you select Holiday for any of the periods in a schedules, all of the holidays defined in this menu are added to the period for that schedule. By default, the TX3 system comes with “New Year” already defined as a holiday.

To configure a holiday

1. Scroll the arrow to “Holidays” in the main configuration menu and press the enter (telephone) key. The “Holiday Options” selection appears.



To add a holiday

1. Select Add. The “Enter Label” menu appears. You can add, edit or delete any holiday. By default, “New Year” is already programmed into the system.

2. Create a label, then a start and end time. Then select if this is holiday is an annual occurrence.

3. Press the telephone (enter) key to accept. The message “Holiday Added” is displayed on the screen and you are then returned to the “Holiday Options” screen.

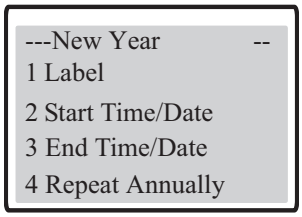
To edit a holiday

1. Select “Edit”. A list of all the holidays appears.

2. Press the arrow keys to scroll to the holiday you would like to edit.

3. Press the telephone (enter) key to accept.

4. Press the arrow keys to scroll to the item you want to edit for the holiday (that is, “Label”, “Start Time/Date”, “End Time/Date”, or “Repeat Annually“), and then press the telephone (enter) key.



5. Make your edits to the item, and then press the telephone (enter) key to accept it. You are returned to the Holiday edit screen.

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6. If you want to edit more items for the holiday, repeat steps 4. and 5. above.
7. Press info key to save your edits.
8. Press the info key to return to the “Holiday Options” menu.

To delete a holiday

1. Select Delete. A list of all the holidays appears.
2. Press the arrow keys to scroll to the holiday you would like to delete, and then press the telephone (enter) key to select the holiday for deletion.
3. Press the telephone (enter) key to accept the deletion.
4. Press the info key to return to the “Holiday Options” menu.

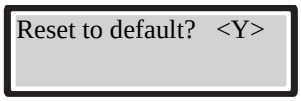
2.10 Factory Default

The “Factory Default” selection lets you apply the factory default settings for the telephone access system.

Note: Selecting the Factory Default does not delete any resident information.

To set the Factory Default

1. Scroll the arrow to “Factory Dflt” in the main configuration menu and press the enter (telephone) key. The Factory Default confirmation selection appears.



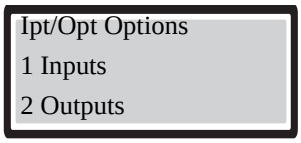
2. Press the telephone (enter) key to accept or i to cancel.

2.11 Input/Output

The Inputs and Outputs selection lets you define specific devices connected to each input and output.

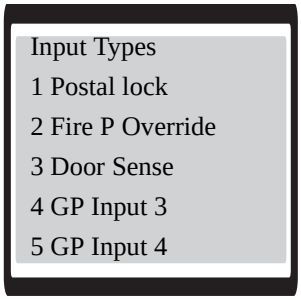
To access Inputs and Outputs

1. Press the arrow key to scroll to “Input/Output” in the main configuration menu. The “Input/Output” selection appears.



To define inputs

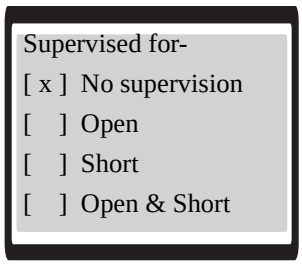
1. Press the arrow key to scroll to Inputs, and press the enter (telephone) key. The “Input Types” selection appears.



2. Press the arrow key to scroll to the input you wish to configure and press the telephone (enter) key. The Input Active State selection appears.

3. Use the “#” key to define the input state as open or closed.

4. Press the telephone (enter) key to accept. The circuit supervision selection appears.



5. Press the arrow key to scroll to the input you wish to configure and use the “#” key to define the input state as No supervision, Open, Short or Open & Short

6. Press the telephone (enter) key. The “Input Types” selection appears.

7. Proceed with the rest of the input configuration or

8. Press info key to return to previous menu.

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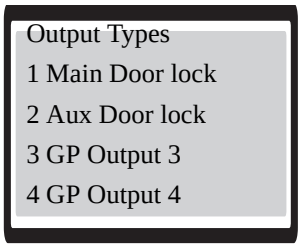
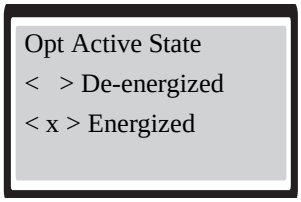
To define outputs

1. Press the arrow key to scroll to Outputs, and press the enter (telephone) key. The Output selection appears.



2. Press the arrow key to scroll to the output you wish to configure and press the telephone (enter) key. The Output Active State selection appears.



3. Press the arrow key to scroll to the input you wish to configure and use the "#" key to define the output state as energized or de-energized.
4. Press the telephone (enter) key. The Output selection appears.
5. Proceed with the rest of the input configuration or
6. Press info key to return to previous menu.

2.12 Correlations

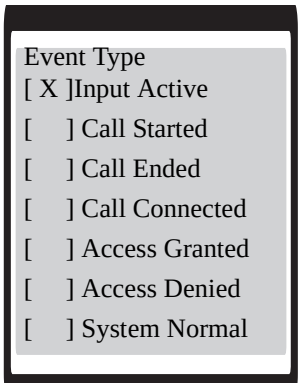
The Correlation selection lets you associate specific input events with specific output actions.

To configure a correlation

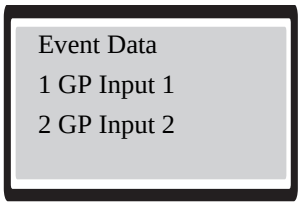
1. Press the arrow to scroll to "Correlations" in the main configuration menu and press the enter (telephone) key. The "Correlation" selection appears.

To make a correlation

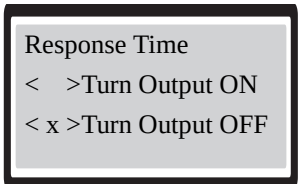
2. Select Add. The “Event” selection appears.



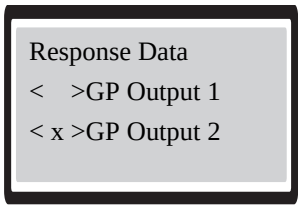
3. Press the arrow key to scroll to a specific type of input and press the telephone (enter) key. The Event Data selection appears.



4. Press the arrow key to scroll to a specific type of input event and press the telephone (enter) key. The “Response Type” selection appears.



5. Press the arrow key to scroll to a specific type of output action (response) and press the telephone (enter) key. The “Response Data” selection appears.



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6. Press the arrow key to scroll to a specific output and press the telephone (enter) key. The “Schedule” selection appears

7. Press the arrow key to select a specific schedule and press the telephone (enter) key. The “Correlation Timer” entry appears

8. Press the arrow key to specify the duration for the correlation and press the telephone (enter) key. The “Node address” entry appears. An output action occurs on the panel designated by its node address, including the originating the panel. Setting an address of 0 sets the output action for all panels.

9. Press the arrow key to scroll to select a node address and press the telephone (enter) key. The message Correlation Updated appears.

10. Press info key to return to previous menu.

To edit or delete a correlation

1. Press the arrow to scroll to “Correlations” in the main configuration menu and press the enter (telephone) key. The “Correlation” menu appears.

2. Select Edit or Delete. A list of all the correlations appears.

3. Press the arrow keys to scroll to the correlation you would like to edit or delete.

4. Press the telephone (enter) key to accept.

5. Press info key to return to previous menu.

2.13 Changing Passcodes

The Changing Passcodes selection lets you change your passcode for your access level. There are three access levels.

Level 1. *Not used.*

Level 2. Level 2 passcode allows access to the operation menu.

Level 3. Level 3 passcode allows access to both operation and configuration menu. The level 3 passcode is also a network passcode used by the configurator software. If the level 3 passcode changes, the configurator will not be able to connect to the panel unless the network password is set to the level 3 passcode.

To change a passcode

1. Press the arrow to scroll to "Change Passcode" in the main configuration menu and press the enter (telephone) key. The "Enter Access Level" entry appears.

2. Press the arrow keys to scroll to your access level and press the telephone (enter) key to accept.

3. Enter the new passcode. It can be up to 10 digits long.

Note: If you forgot the new passcode, call Mircom's Technical Support Department. See Technical Support contact information in Section 1.5).

4. Press the telephone (enter) key to accept. The "Enter New Passcode" entry appears.

5. Press the enter (telephone) key to enter the new passcode. The "Re-enter New Passcode" entry appears.

6. Re-enter the new passcode.

7. Press the enter (telephone) key to finalize entry of the new passcode.

8. Press info key to return to previous menu.

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2.14 Test LCD

The Test LCD selection lets you view all 255 character lines.

To test the LCD

1. Press the arrow to scroll to “Test LCD” in the main configuration menu and press the enter (telephone) key. The “Test LCD” menu appears.
2. Press the arrow keys to scroll through the character lines.
3. Press info key to return to previous menu.

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Warranty & Warning Information

Limited Warranty

Mircom Technologies Ltd. together with its subsidiaries and affiliates (collectively, the "Mircom Group of Companies") warrants the original purchaser that for a period of two years from the date of manufacture, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Mircom shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify Mircom in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Mircom shall not be responsible for any customs fees, taxes, or VAT that may be due.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Mircom such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Mircom);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Mircom must first obtain an authorization number. Mircom will not accept any shipment whatsoever for which prior authorization has not been obtained.

Note: Unless specific pre-authorization in writing is obtained from Mircom management, no credits will be issued for custom fabricated products or parts or for complete fire alarm system. Mircom will at its sole option, repair or replace parts under warranty. Advance replacements for such items must be purchased.

Note: Mircom's liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Mircom neither assumes nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

Out of Warranty Repairs

Mircom will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Mircom must first obtain an authorization number. Mircom will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Mircom determines to be repairable will be repaired and returned. A set fee which Mircom has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Mircom determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

WARNING

Mircom recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

NOTE

Under no circumstances shall Mircom be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

MIRCOM MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS GOODS DELIVERED, NOR IS THERE ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, EXCEPT FOR THE WARRANTY CONTAINED HEREIN.

Special Notices

Product Model Number: TX3

AC REN (U.S.): 0.0B

AC REN (CANADA): 0.0

Complies With

Federal Communications Commission (FCC):

- TIA-968-A Technical requirement for connection of equipment tot he telephone network.
- CFR 47, Part 15, Subpart B, Class B
- Unintentional Radiators

Industry Canada (IC):

- Terminal attachment programme
- CS-03, Issue 8 - Certification Specifications
- ICES-003, ISSUE 4, CLASS B
- Verification Authorization - Digital Apparatus

Registration Numbers

FCC (U.S.): 1M8TE00BTX3

IC (Canada): 1156A-TX3

Industry Canada Notice for all TX3 Products Sold in Canada

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. Industry Canada does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunication company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradations of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alteration made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the earth ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This is necessary both for proper operation and for protection.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Note: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five.

FCC Notice for all TX3 Products Sold in the U.S.A.

Type of Service

The TX3 is designed to be used on standard device telephone lines. It connects to the telephone line by means of a standard jack called the USOC RJ-11C (or USOC FJ45S). Connection to telephone company-provided coin service (central office implemented systems) is prohibited. Connection to party lines service is subject to state tariffs.

Telephone Company Procedures

The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations or procedures. If these changes might affect your service or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

In certain circumstances, it may be necessary for the telephone company to request information from you concerning the equipment which you have connected to your telephone line. Upon request of the telephone company, provide the FCC registration number and the ringer equivalence number (REN); both of these items are listed on the equipment label. The sum of all of the RENs on your telephone lines should be less than five in order to assure proper service from the telephone company. In some cases, a sum of five may not be useable on a given line.

Changes to Telephone Service

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

Ringer Equivalence Number

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is Customer Information 3 July 2003 part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If Problems Arise

If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network. If the telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If advance notice is not feasible, you will be notified as soon as possible. When you are notified, you will be given the opportunity to correct the problem and informed of your right to file a complaint with the FCC. Contact your telephone company if you have any questions about your telephone line. In the event repairs are ever needed on the Communicator, they should be performed by Mircom or an authorized representative of Mircom. For information contact Mircom at the address and telephone numbers in paragraph 1.5.

If this equipment, TX3 Telephone System, causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

Product Identifier

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back of the front panel cover of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

Telephone Connection

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. You are responsible for installing a compliant telephone cord and modular plug into this product as described in this manual. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

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Equipment Failure

If trouble is experienced with the TX3 Telephone/Card Access System, for repair or warranty information, please contact Mircom using the numbers in paragraph 1.5. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Use With Alarm Auto Dialers

If your institution has specially wired alarm equipment connected to the telephone line, ensure the installation of the TX3 Telephone/Card Access System does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

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